

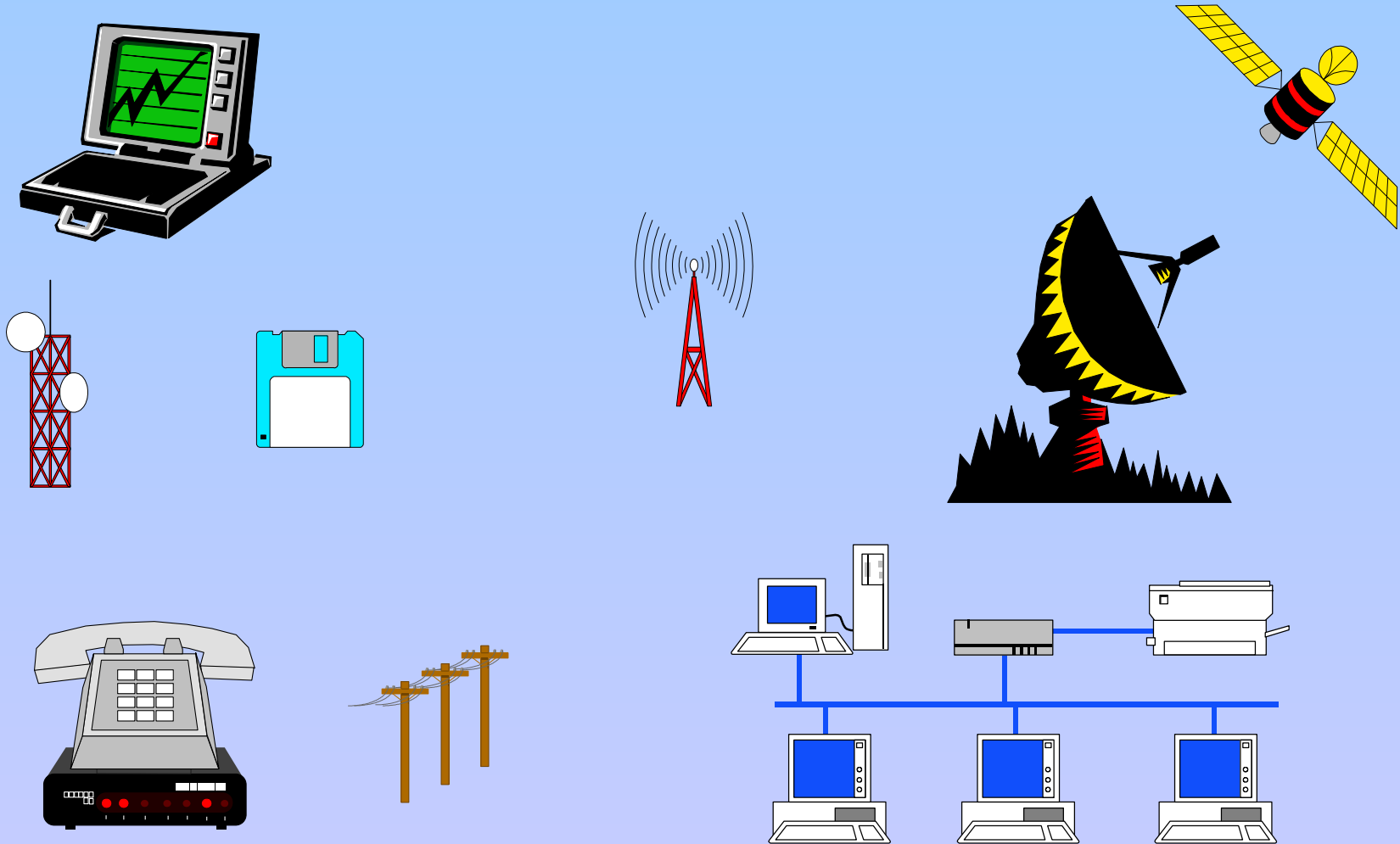


# DON INFOSEC PRINCIPLES AND PROCEDURES FOR THE USER

# COURSE OBJECTIVES

- Identify Navy INFOSEC Policies
- Risk Management
- Virus Prevention
- Application of Core Values in INFOSEC

# WHAT IS INFOSEC?



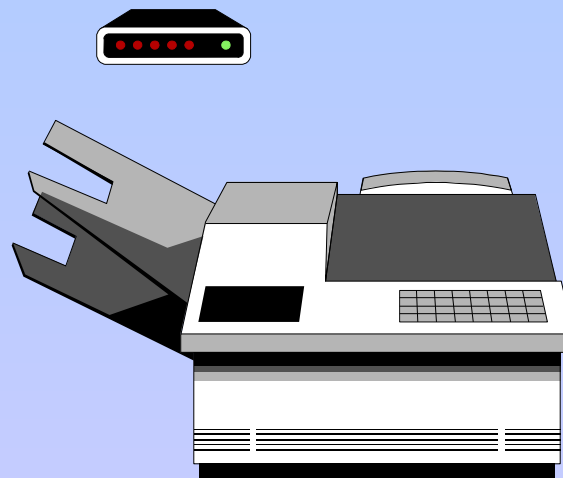
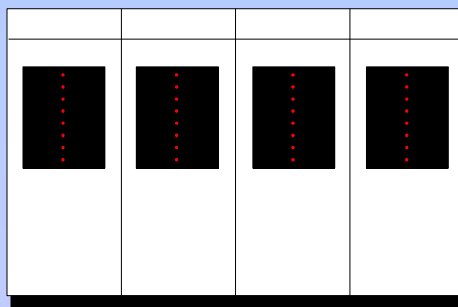
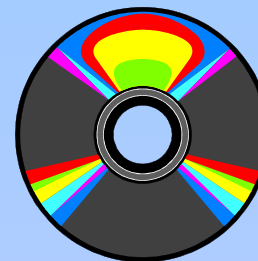
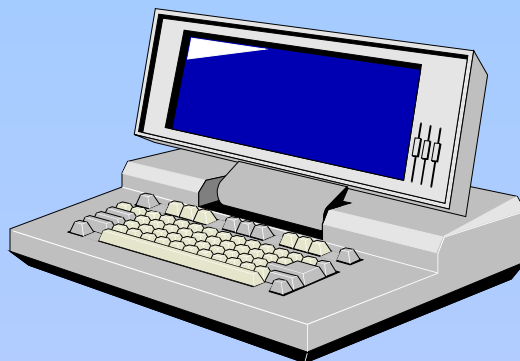
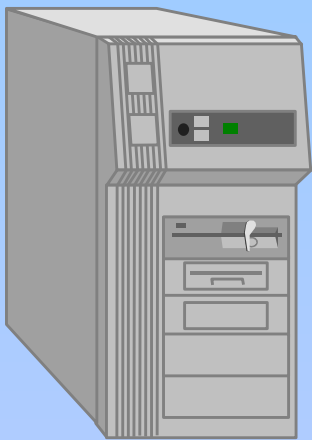
# INFOSEC Considerations

- Hardware and Software
- Information
- Documentation
- Personnel
- Telecommunications

# Introduction to Risk Management

- Terminology
  - Asset
  - Risk
  - Threat
  - Vulnerability
  - Countermeasure

# Asset



# Risk



# Threat

Capabilities, Intentions, and Attack Methods of Adversaries to Exploit, or Any Circumstance or Event With the Potential to Cause Harm to Information or an Information System

(NAVO P-5239-02)



# Natural Threats



# Man-Made Threats

- Internal
- External
- Environmental
- Technical

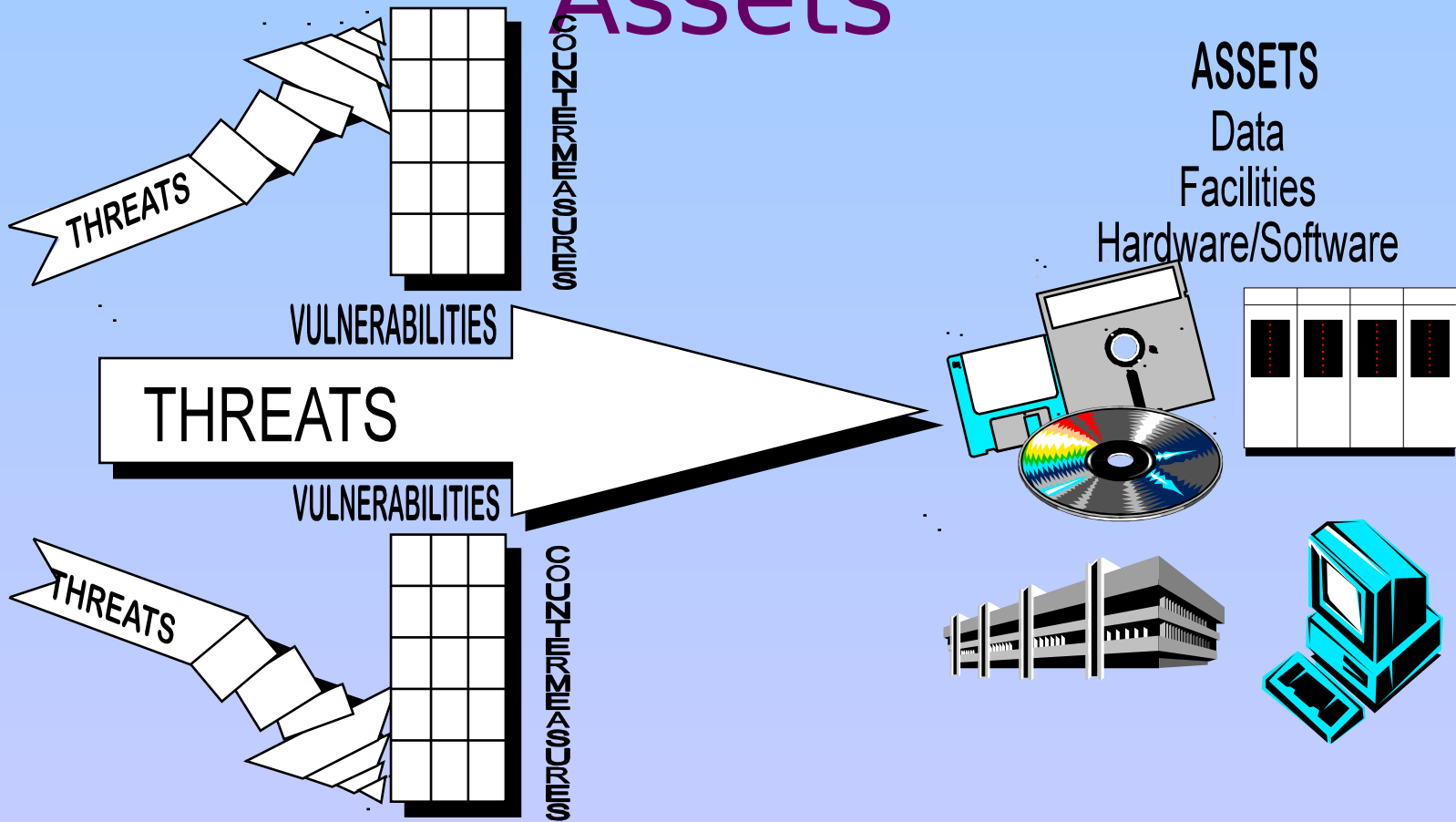
# Vulnerability

- A Weakness in an Information System or Cryptographic System or Components That Could Be Exploited to Violate System Security Policy (NAVSO P-5239-02)

# Safeguard/Countermeasur e



# Assets

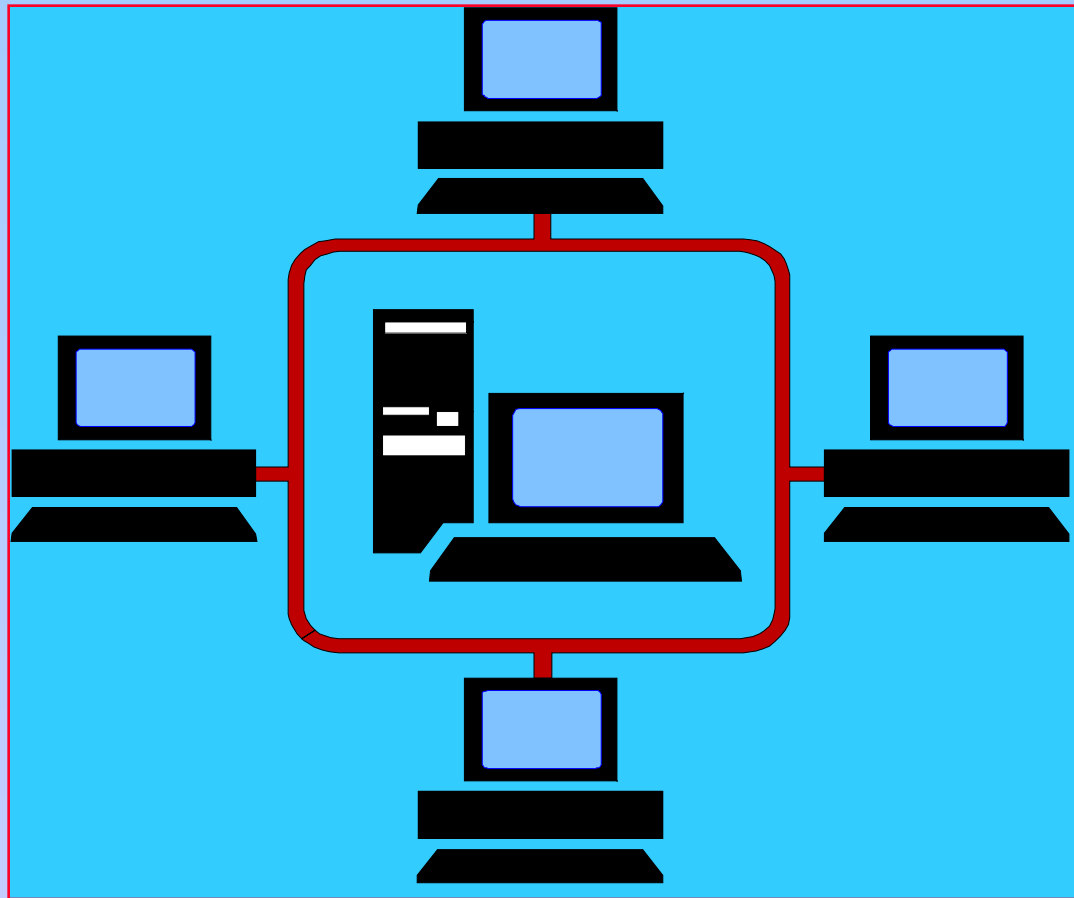


# Risk Management

- The Process Concerned With the Identifying, Control, and Minimizing of Security Risks in Information Systems
- Contingency Planning
- Security Test & Evaluation
- Accreditation

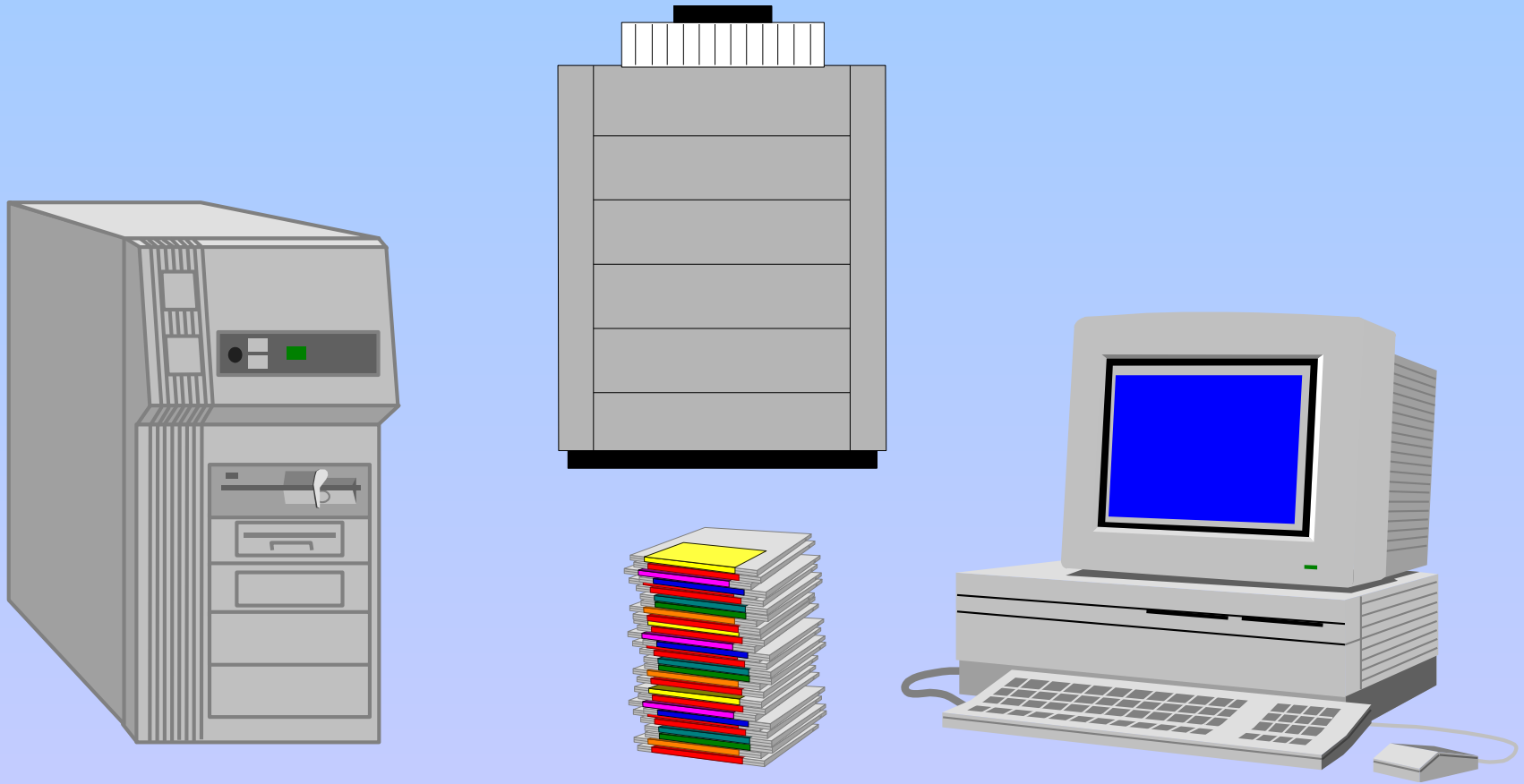
# Introduction to Network Security

# LAN Definition

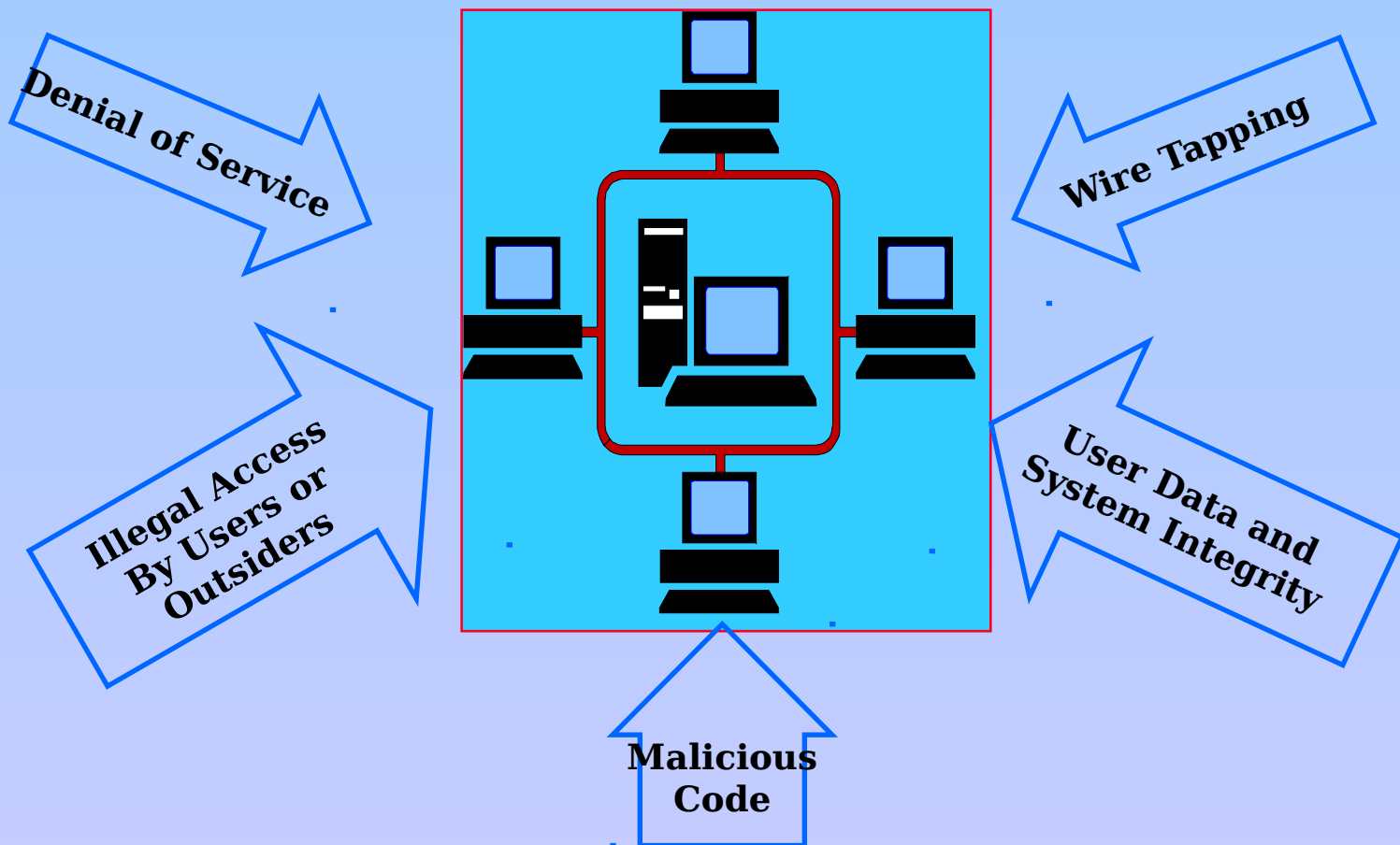




# LAN Components



# Network Vulnerabilities and Risks

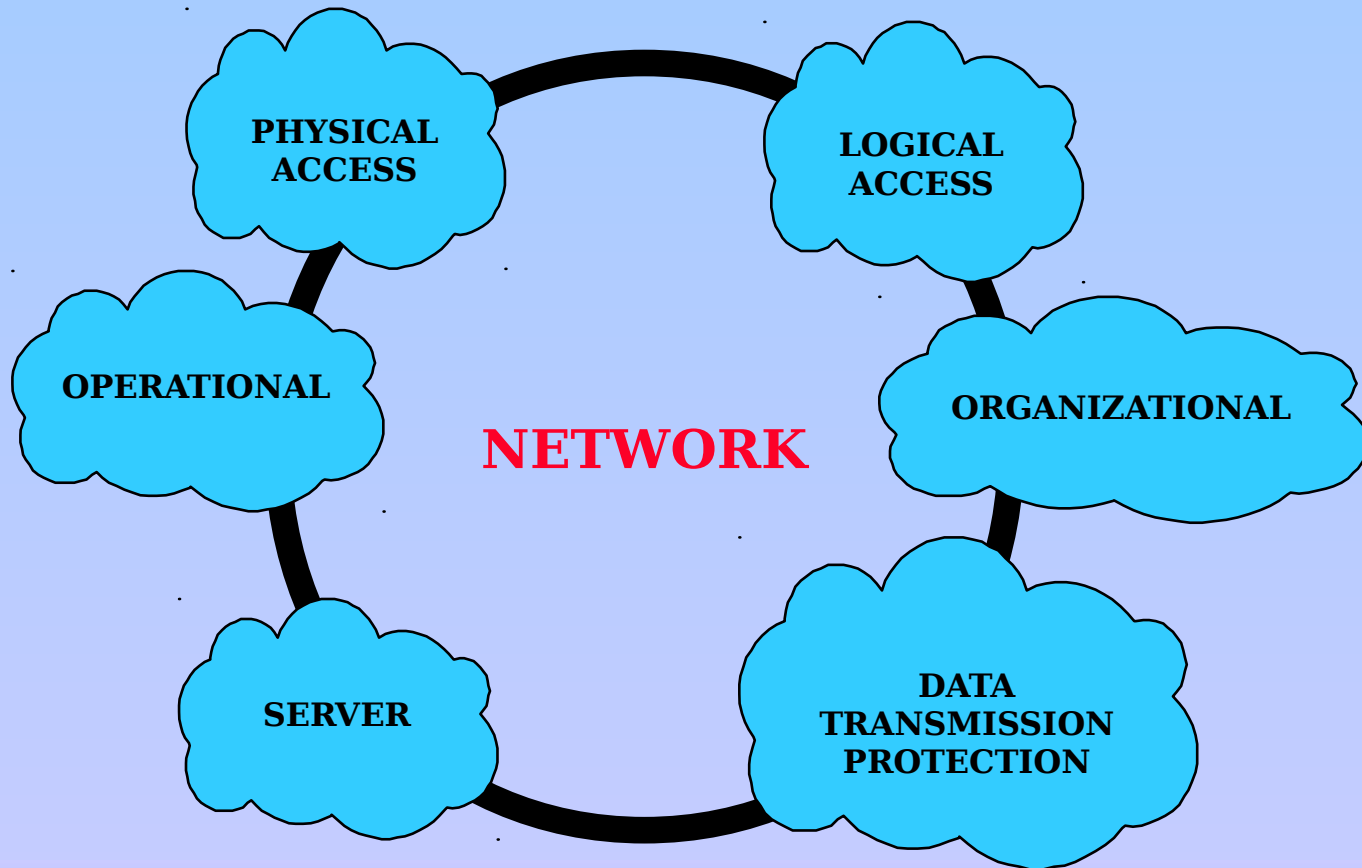


# The Internet



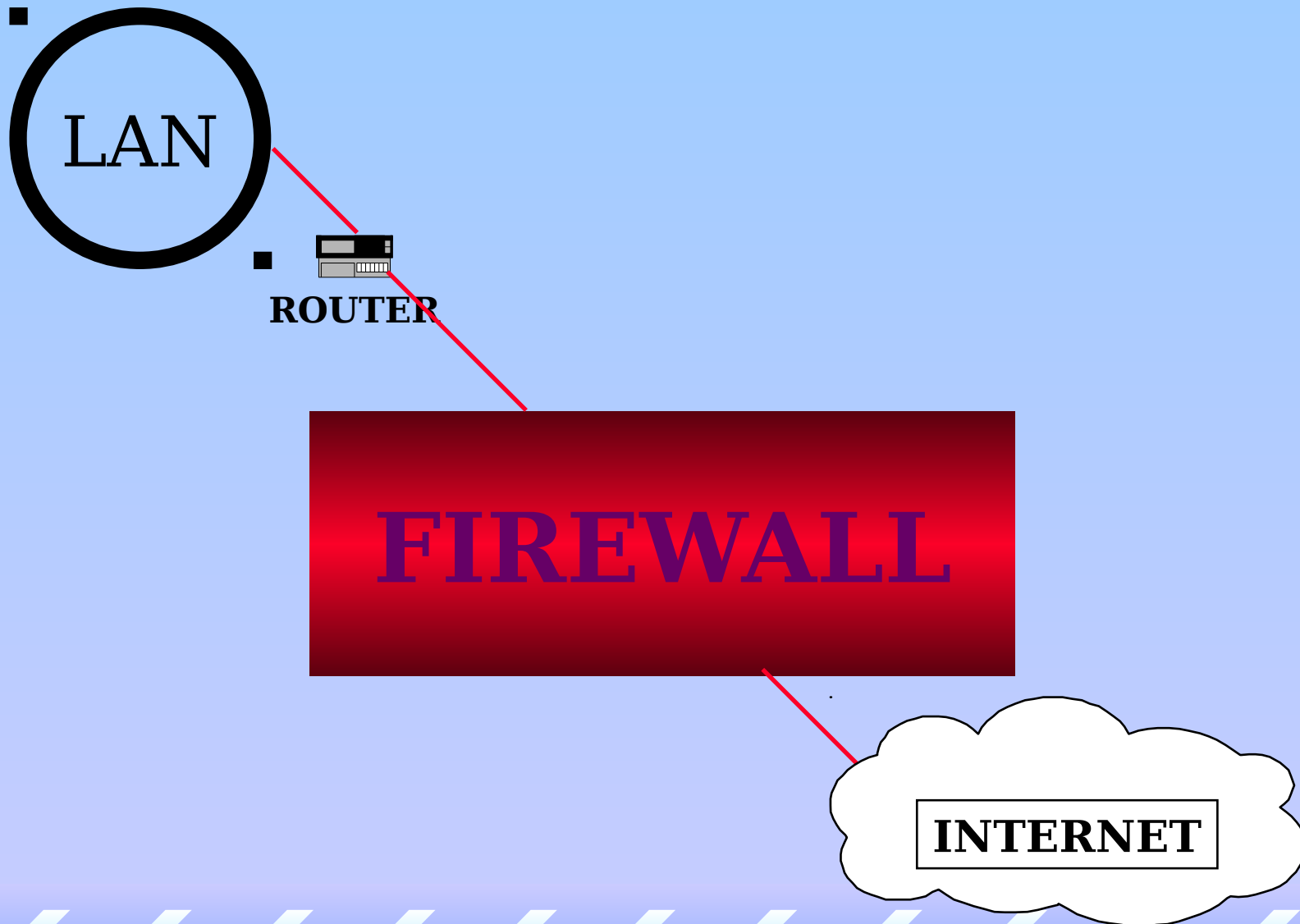
INTERNET

# Network Security Controls



# Network Security Services

- Centralized Management of Backups
- File Locking and Encryption Capability
- Access Control
- Authentication



# DOD Warning Banner

**USE OF THIS OR ANY OTHER DOD INTEREST COMPUTER SYSTEM  
CONSTITUTES A CONSENT TO MONITORING AT ALL TIMES**

**WARNING \*\* CAUTION \*\* WARNING \*\* CAUTION \*\* WARNING \*\* CAUTION**

**THIS IS A DEPARTMENT OF DEFENSE COMPUTER SYSTEM. THIS COMPUTER SYSTEM,  
INCLUDING ALL RELATED EQUIPMENT, NETWORKS AND NETWORK DEVICES  
(SPECIFICALLY INCLUDING INTERNET ACCESS), ARE PROVIDED ONLY FOR AUTHORIZED  
U.S. GOVERNMENT USE. DOD COMPUTER SYSTEMS MAY BE MONITORED FOR ALL  
LAWFUL**

**PURPOSES, INCLUDING TO ENSURE THAT THEIR USE IS AUTHORIZED, FOR  
MANAGEMENT**

**OF THE SYSTEM, TO FACILITATE PROTECTION AGAINST UNAUTHORIZED ACCESS, AND  
TO VERIFY SECURITY PROCEDURES, SURVIVABILITY AND OPERATIONAL SECURITY.  
MONITORING INCLUDES ACTIVE ATTACKS BY AUTHORIZED DOD ENTITIES TO TEST  
OR VERIFY THE SECURITY OF THIS SYSTEM. DURING MONITORING, INFORMATION MAY  
BE EXAMINED, RECORDED, COPIED AND USED FOR AUTHORIZED PURPOSES. ALL  
INFORMATION, INCLUDING PERSONAL INFORMATION, PLACED ON OR SENT OVER THIS  
SYSTEM MAY BE MONITORED. USE OF THIS DOD COMPUTER SYSTEM, AUTHORIZED OR  
UNAUTHORIZED, CONSTITUTES CONSENT TO MONITORING OF THIS SYSTEM.  
UNAUTHORIZED USE MAY SUBJECT YOU TO CRIMINAL PROSECUTION. EVIDENCE OF  
UNAUTHORIZED USE COLLECTED DURING MONITORING MAY BE USED FOR  
ADMINISTRATIVE, CRIMINAL OR ADVERSE ACTION. USE OF THIS SYSTEM  
CONSTITUTES CONSENT TO MONITORING FOR THESE PURPOSES.**

**General Military Training-  
INFOSEC**

**1-2-23**

# Malicious Code

NEWLY FORMATTED 3.5 DISKETTE - BOOTABLE  
MICHELANGELO INFECTION

Physical Sector: Cyl 0, Side 0, Sector 1

00000000:	E6 AA 00 F1 00 70 9A 04	- 03 00 19 9D 00 A0 1C 50	.....P
00000010:	0A D2 75 1B 33 C0 8E D8	- F6 06 3F 04 01 75 10 58	..u.3.....?..u.X
00000020:	1F 7C 2D FF 1E 0A 00 9A	- E8 0C 00 9A BA 02 00 58	.....X
00000030:	1F 2E FF 2E 0A 00 50 53	- 51 52 1E 06 56 57 0E 1F	.....PSQR..VW.
00000040:	0E 07 BE 04 00 B8 01 02	- BB 00 02 B9 01 00 33 D2	.....3.
00000050:	9C FF 1E 0A 00 73 0C 33	- C0 9C FF 1E 0A 00 4E 75	.....s.3.....Nu
00000060:	E4 EB 43 33 F6 FC AD 3B	- 07 75 06 AD 3B 47 02 74	..C3...;.u...;G.t



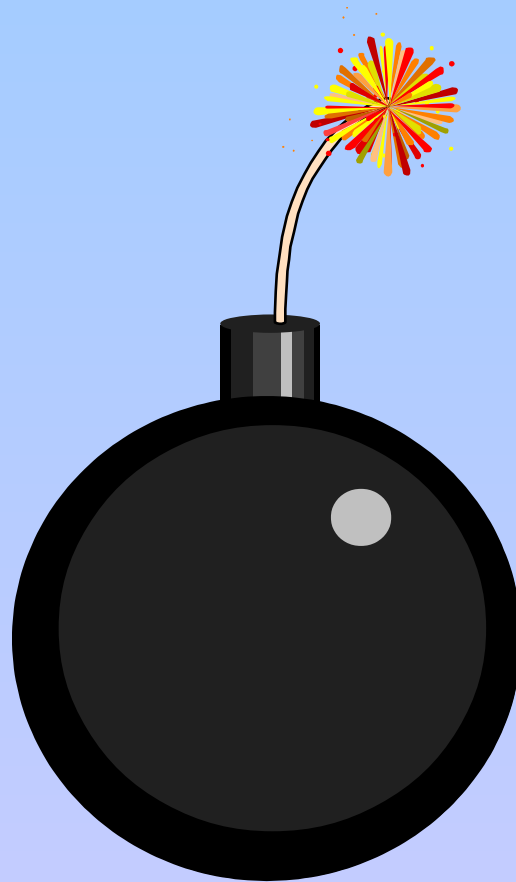
# Worm



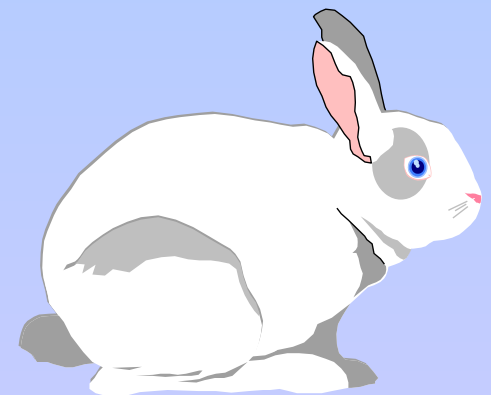
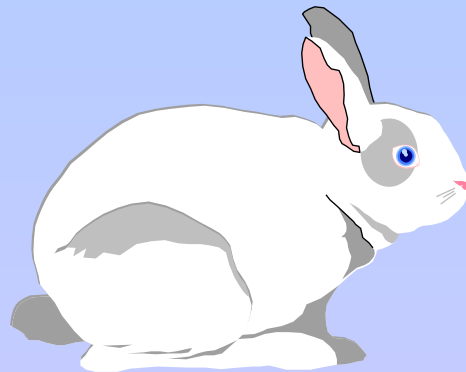
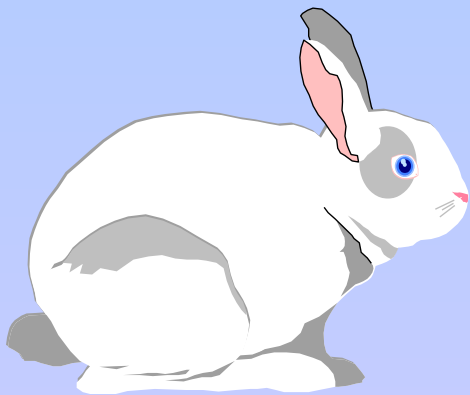
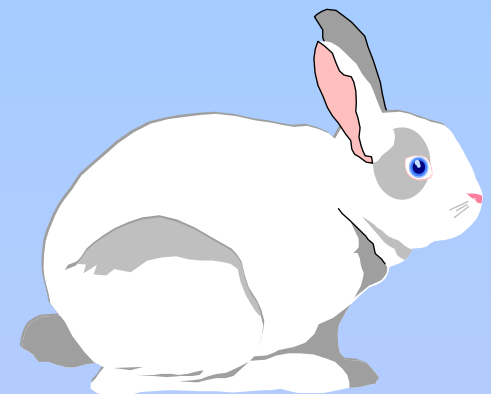
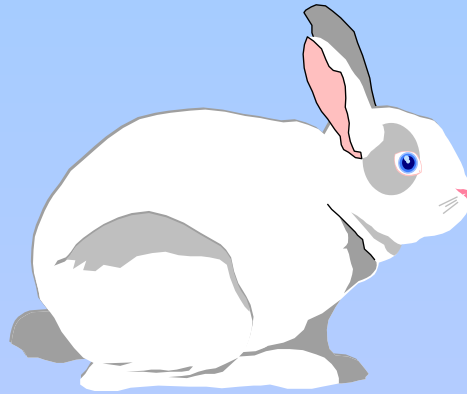
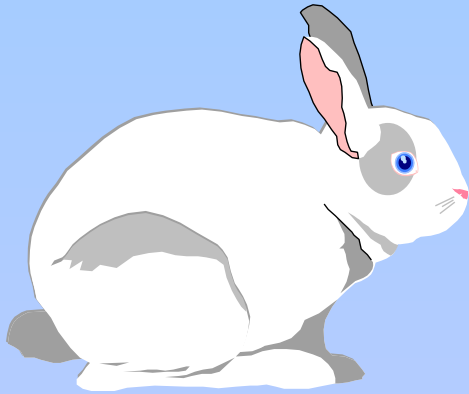
# Trojan Horse



# Bomb



# Virus



# Why Viruses Are Successful

- Lack of Awareness
- Absence of Adequate Controls
- Ineffective Use of Existing Controls
- Bugs/Loopholes in System Software
- Unauthorized System Use
- Network Misuse

# What is the Cost?

- Labor
- Hardware
- Information Assets
  - Confidentiality
  - Integrity
  - Availability
- Public Relations/Customer Confidence

# What Do You Look For?

- Note Abnormal or Unexpected Activity
  - Displays, Music or Other Sounds
  - Slowdown in Processing Speed
  - Unusual Disk Activity
  - Error Messages
  - Changes in File Sizes
  - Loss of Programs or Data

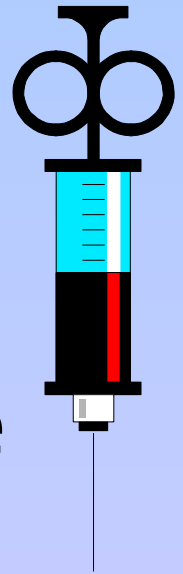
# If You Suspect an Infection

- STOP Processing
- Take Notes
- Call the ISSO/ISSM



# Preventing Infection

- Configure System to Boot From C
- Use Latest Version of Anti-Viral Software
- Scan All Media Before Use
- Scan “New” Computer Systems
- Do Not Use Unapproved Software



# Virus Scanners

- ScanProt
- F-Prot
- IBM Anti-Virus
- McAfee
- Norton Anti-Virus
- Microsoft Anti-Virus

# Contingency Plan



# Purpose of Contingency Planning

- Natural Disasters
- Viruses
- Cable Trouble
- Disk Crashes
- Loss of Power
- Hardware Failure
- Security Incidents



# Contingency Plan Responsibilities



ISSM



We, The Users

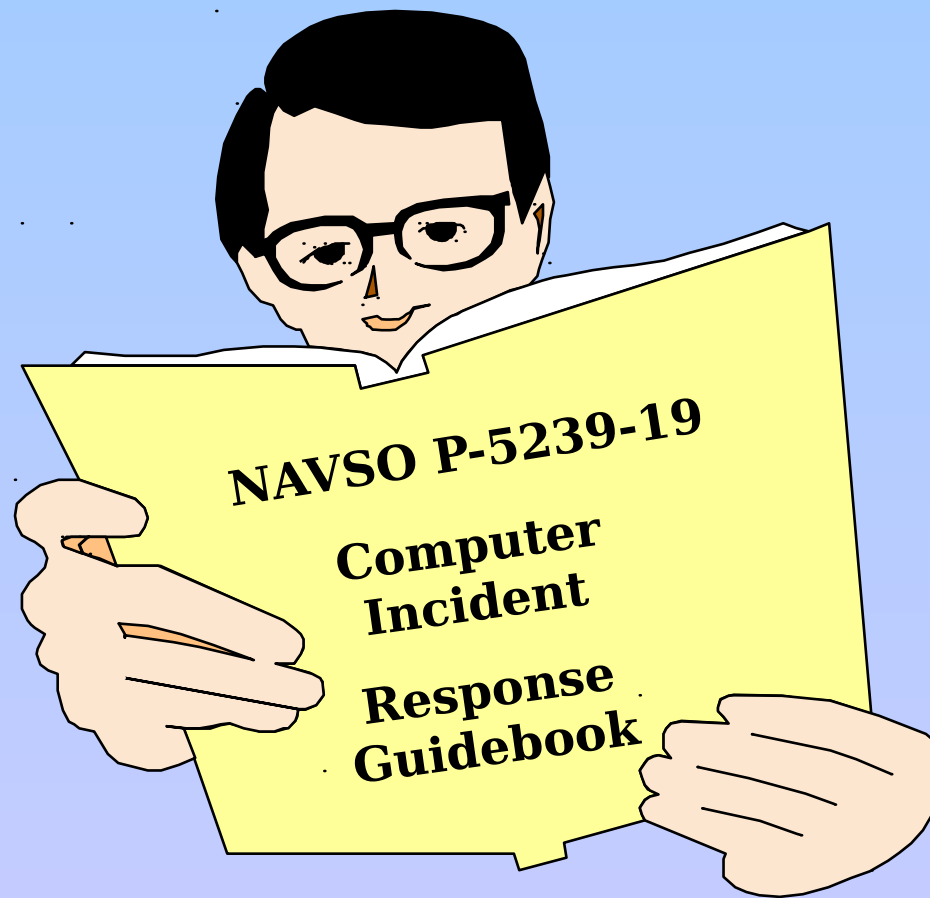


ISSO

# Testing Contingency Plans

- Conduct Periodic Testing As Directed
- Perform Evaluation and Update
  - Annually
  - Completion of Risk Assessment
  - Addition of New Application

# Computer Incidents



# Incident Categories

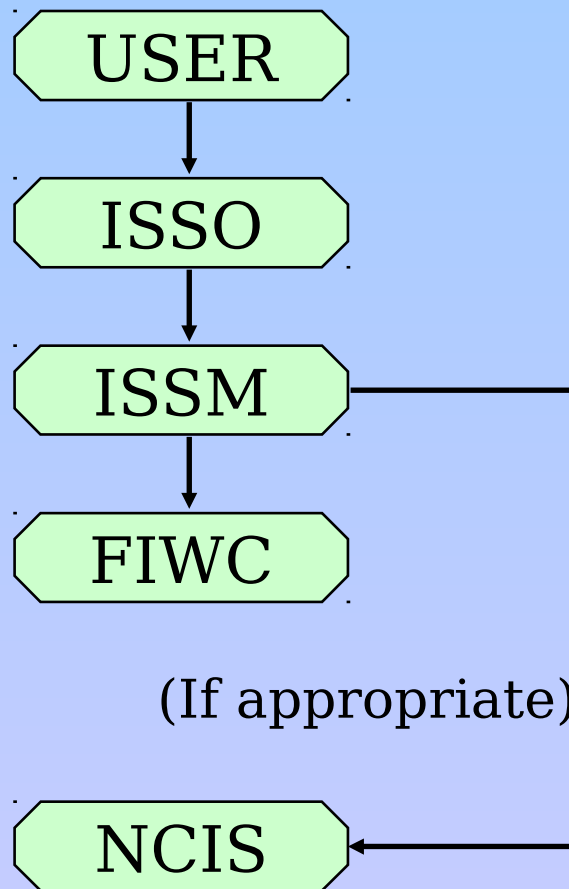
- Malicious Code Attacks
- Unauthorized Access
- Disruption of Service
- Unauthorized Utilization of Services
- Espionage
- Hoaxes



# Responsibilities

- Users
- ISSO/ISSM
- FIWC
  - NAVCIRT
- NCIS
- PAO

# Reporting An Incident



# Legal Considerations

- Display Warning Banner
- Monitor Systems and Networks
- Do Not Handle Evidence

# SUMMARY

In This Lesson We:

- Identified Navy INFOSEC Policies
- Risk Management Procedures
- Discussed Virus Prevention
- Explained Application of Core Values in INFOSEC